

DATA ITEM DESCRIPTION

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1. TITLE

TEST AND EVALUATION PROGRAM PLAN (TEPP)

2. IDENTIFICATION NUMBER

DI-NDTI-81284

3. DESCRIPTION/PURPOSE

3.1 The Test and Evaluation Program Plan (TEPP) describes the contractor's plan for conducting tests and analyzing the test results to show how the system will satisfy the requirements of the applicable design specification.

4. APPROVAL DATE (YYMMDD)

920911

5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)

N/PMO409

6a. DTIC APPLICABLE

6b. GIDEP APPLICABLE

7. APPLICATION/INTERRELATIONSHIP

7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

8. APPROVAL LIMITATION

9a. APPLICABLE FORMS

9b. AMSC NUMBER

N6787

10. PREPARATION INSTRUCTIONS

10.1 Format. The Test and Evaluation Program Plan (TEPP) shall be in the contractor's format and shall conform to the following:

10.1.1 Page size. The plan shall be typewritten or printed on standard size paper, e.g., 8 1/2 by 11 inches or metric A4. The pages shall be sequentially numbered and security bound together. If graphic material exceeds one page, it shall be one-way foldouts. All attachments shall be identified and referenced in the text. Each section and paragraph shall be numbered.

10.1.2 Table of contents and index. If the plan is more than 30 pages in length, it shall contain a table of contents. If the plan is more than 120 pages in length, it shall also include an index.

10.2 Content requirements.

10.2.1 Title page. The title page shall include the following:

- a. Identification of system being tested.
- b. Contractor's name
- c. Contract number.
- d. Security classification.
- e. Distribution statement.

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11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

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Block 10, Preparation Instructions (Cont)

10.2.2 Introduction. The introduction shall describe the plan and its relationship to other elements of the total program plan. This section shall include definitions of inspection network/classes, integrated test planning, and development and production applicability.

10.2.3 Test and evaluation program objectives. The TEPP shall outline the contractor's plans in meeting the following objective:

- a. Verification - that the design yields the specified performance.
- b. Confidence - that fabrication defects, marginal design, marginal parts, and marginal components (if any exist) are detected early in the test sequence.
- c. Minimum risk - that proceeding with the program's next major effort (field deployment) will not uncover significant design inadequacies.
- d. Survival verification - that the elements of the system can survive the environments predicted to be encountered during transportation, handling, installation and field operation.
- e. Compatibility and operational readiness verification - that the system and all of its subsystems, as built and assembled, are compatible with each other and are capable of performing the required mission functions.
- f. System characterization - by establishing the operating signature of the performance through calibration and combination of segment, subsystem, and unit level performance data.
- g. Buy-off basis - for the acceptance and delivery of the system.

10.2.4 Organizational responsibility and test management. This section shall define the test management approach to provide for continuity of test effort and to arrange for the application of unique skills and experience to the test program. General and specific organization responsibilities of each contractor and agency shall be identified, as well as, the responsibilities of participating organizations, i.e., Joint Test Group (JTG).

10.2.5 Tests and examinations. The TEPP shall identify and describe the following test and examination requirements:

10.2.5.1 Flow diagram: The plan shall include an overall flow diagram of the test and deployment program. This flow shall be sequentially arranged to include all significant test milestones and efforts in the development phase, associated with each class of test; hardware and software integration schedules; requirements for test concurrency; contractor/agency responsible for each test event; and any additional information which clarifies the description of the test program. The flow diagram shall reflect predicted dates for significant milestones instead of month following contract award.

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Block 10, Preparation Instructions (cont)

10.2.5.2 References: List all documents upon which the TEPP is based on which relate significantly to any portion of the test effort.

10.2.5.3 Test objectives: This section shall specify broad objective for each test. Objectives shall be stated in terms of satisfying system specification and subsystem specification requirements. It is particularly important that this section support a unified set of objectives for the entire test program so that redundant testing shall be eliminated and the test program shall evolve smoothly through each succeeding phase.

10.2.5.4 Test support requirement: This section shall identify and describe all significant technical and logistical support required to implement each test. These requirements should be expressed in sufficient detail to permit a determination of whether the Government has the capability. In addition, this section shall identify the following major requirements for each test phase:

a. Instrumentation - identify special test equipment, and equipment requiring long lead times to develop or procure.

b. Test logistics - identify logistics requirements including supply maintenance and transportation.

c. Facilities - indicate the major and special facilities required to support the test effort, including simulation requirements, Government facilities, environmental test facilities, and plans for validating that facility interfaces and support capabilities are both realistic and compliant with design documentation.

d. Data processing requirements - identify requirements for data processing equipment, including estimates of total number of processing hours required. Identify any special computer programs for test conduct (simulation, etc.), data reduction, or test analysis.

10.2.5.5 Special tests: This section shall provide a list and brief explanation of special or unusual tests and examination necessary to verify satisfactory equipment performance to specification.

10.2.6 Test documentation. This section shall identify documentation requirements for each phase of the test program. It shall describe generation and approval processes, document change and revision control and interdepending among test and engineering documentation.